

invention and/or an allele according to the fourth aspect of the invention for comparison with a DNA analysis result.

The analysis may be a DNA profile of a sample. The profile may be based on analysis of one or more loci, in particular including one or more of HUMVWFA31/A, HUMTHO1, D8S1179, HUMFIBRA/FGA, D21S11, D18S51 or AMG. The sample may be from the scene of a crime, associated with the scene of a crime or comprise a bodily fluid sample. The sample may be used to compare two or more individuals, or samples arising therefrom, for instance in paternity and/or maternity analysis.

According to a sixth aspect of the invention we provide a method of producing an allelic ladder or mixture thereof by subjecting the ladders of the first, second or fourth aspects of the invention to PCR.

### BRIEF DESCRIPTION OF THE DRAWINGS

The invention will now be described, by way of example only, and with reference to the accompanying figure in which :-

#### Figures 1a and 1b

Figure 1a illustrates the locus, allele designation and size for an embodiment of the invention;

Figure 2a shows an electrophoretogram of the allelic ladder for Amelogenin (AMG);

Figure 2b shows an electrophoretogram of the allelic ladder for HUMVWFA31/A;

Figure 2c shows an electrophoretogram of the allelic ladder for HUMTHO1;

Figure 2d shows an electrophoretogram of the allelic ladder for D8S1179;

Figure 2e shows an electrophoretogram of the allelic ladder for HUMFIBRA, low and high molecular weights;

FIGURE 1a

loci	allelic designation	size (bp)	loci	allelic designation	size (bp)	loci	allelic designation	size (bp)	loci	allelic designation	size (bp)
TH01	4	150	D8	7	157	D18	8	266	FGA (LMW)	16.1	173
	5	154		8	161		9	270		17	176
	6	158		9	165		10	274		18	180
	7	162		10	169		11	278		19	184
	8	166		11	173		12	282		20	188
	9	170		12	177		13	286		21	192
	9.3	173		13	181		14	290		22	196
	10	174		14	185		15	294		23	200
	11	178		15	189		16	298		24	204
	13.3	189		16	193		17	302		25	208
D21	53	203		17	197		18	306		26	212
	54	205		18	201		19	310		27	216
	56	209		19	205		20	314		28	220
	57	211	VWA	10	122		21	318		29	224
	59	215		11	126		22	322		30	228
	61	219		12	130		23	326		30.2	230
	63	223		13	134		24	330		31.2	234
	65	227		14	138		25	334		32.2	238
	67	231		15	142		26	338		33.2	242

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FIGURE 1b

68	233	16	146		27	342	34.2	246
70	237	17	150	AMELO	X	105	42.2	278
72	241	18	154		Y	111	42.3	282
74	245	19	158				44.2	286
75	247	20	162				45.2	290
77	251	21	166				46.2	294
79	255						47.2	298
81	259						48.2	302
							50.2	310